

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference PAT02015PCT	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/EP 03/51067	International filing date (day/month/year) 18/12/2003	(Earliest) Priority Date (day/month/year) 30/12/2002
Applicant NOKIA CORPORATION		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

☐ as suggested by the applicant.

☒ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

2

☐ None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/51067

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02/15211 A (NOKIA CORP ;NOKIA INC (US)) 21 February 2002 (2002-02-21) abstract; figures 3A,3B,4.6A,6B ---	1,4-13
X A	WO 00/79772 A (FEIL HENRY ;SIEMENS AG (DE)) 28 December 2000 (2000-12-28) page 2, line 24-37 page 4, line 14-33 figures 1-5 -----	1,2,4-7 3,8-13
X	EP 1 146 490 A (SHINETSU POLYMER CO) 17 October 2001 (2001-10-17) abstract column 3, line 39-56 column 9, line 27 -column 14, line 5 figures 1-4 -----	1,3-13

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 03/51067

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
US 6067074	A	23-05-2000	US	6028591 A	22-02-2000
			JP	63132323 A	04-06-1988
DE 19951219	A	19-04-2001	DE	19951219 A1	19-04-2001
DE 19758403	A	01-07-1999	DE	19758403 A1	01-07-1999
WO 0215211	A	21-02-2002	US	6704004 B1	09-03-2004
			AU	7764201 A	25-02-2002
			EP	1309981 A1	14-05-2003
			WO	0215211 A1	21-02-2002
WO 0079772	A	28-12-2000	WO	0079772 A1	28-12-2000
EP 1146490	A	17-10-2001	JP	2001291449 A	19-10-2001
			EP	1146490 A2	17-10-2001

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP 03/51067

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04M1/22 H04M1/725 G06F3/023

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H04M G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 067 074 A (LUEDERS WILLIAM R) 23 May 2000 (2000-05-23) abstract column 2, line 8-63 column 3, line 45 -column 4, line 62 column 5, line 9-38 column 7, line 61-64 figures 2,3,6-8 ---	1-13
X	DE 199 51 219 A (ALI HOSSAIN ;EMAMI ARMAN (DE)) 19 April 2001 (2001-04-19) abstract column 2, line 20 -column 3, line 53 claims 1-5; figures 1-9 ---	1,4-13
X	DE 197 58 403 A (GRIBOV IOURII) 1 July 1999 (1999-07-01) the whole document ---	1-13
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

G document member of the same patent family

Date of the actual completion of the international search

5 May 2004

Date of mailing of the international search report

13/05/2004

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